

NRC Medium Voltage Circuit Breaker Training



Attachment 9A

MA Allis Chalmers Work Shop

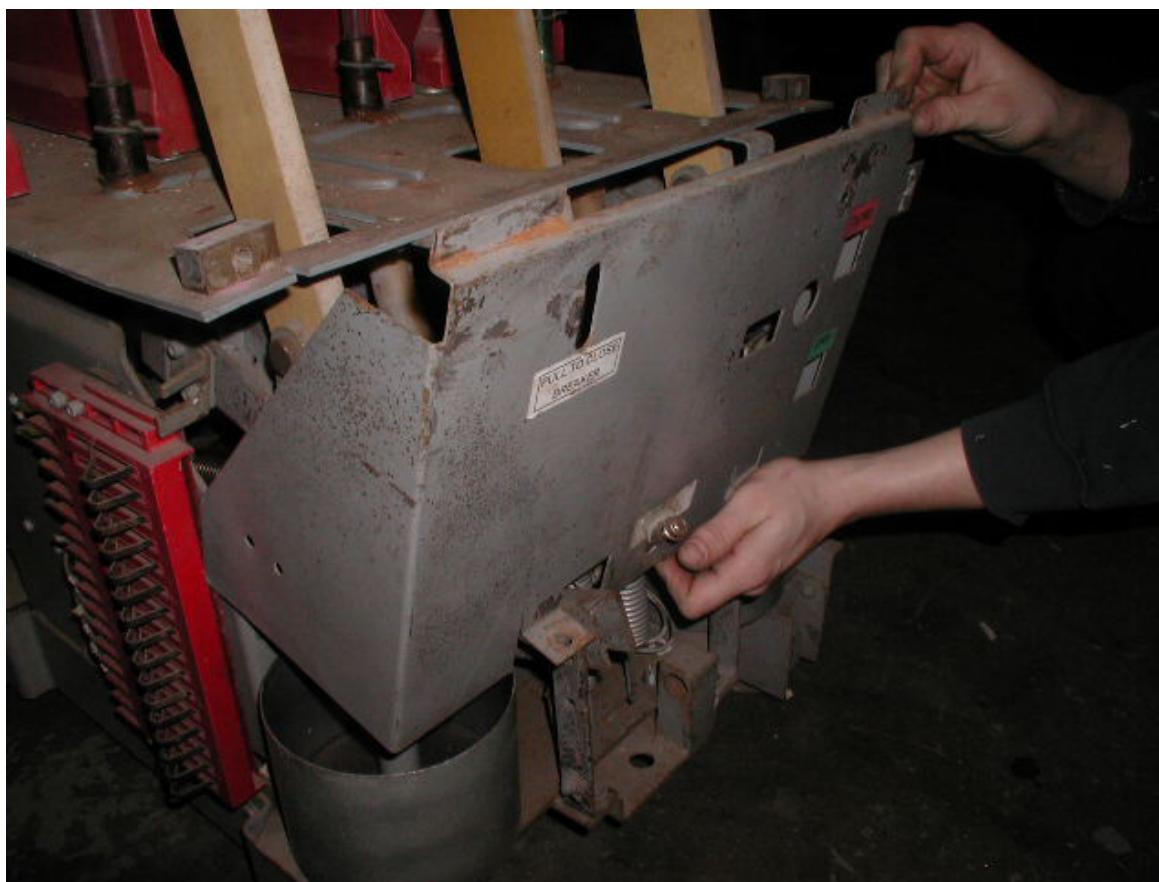
REMOVE Mechanism Cover



**REMOVE the 2 bolts on the lower front of mechanism
and nut and washer from the right side**



REMOVE the cover over Trip Button

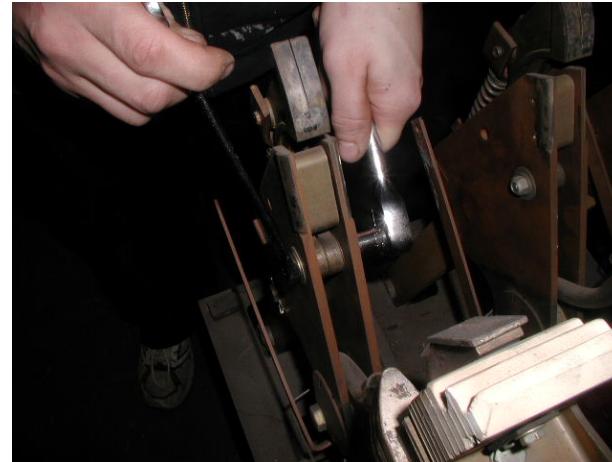


Minimum Voltage Operational Test



- **CHARGE** breaker at 125 VDC.
- **SET** control voltage to 90 VDC and attempt to close breaker. **VERIFY** breaker closes.
- **SET** control voltage to 70 VDC and attempt to open breaker. **VERIFY** breaker opens.

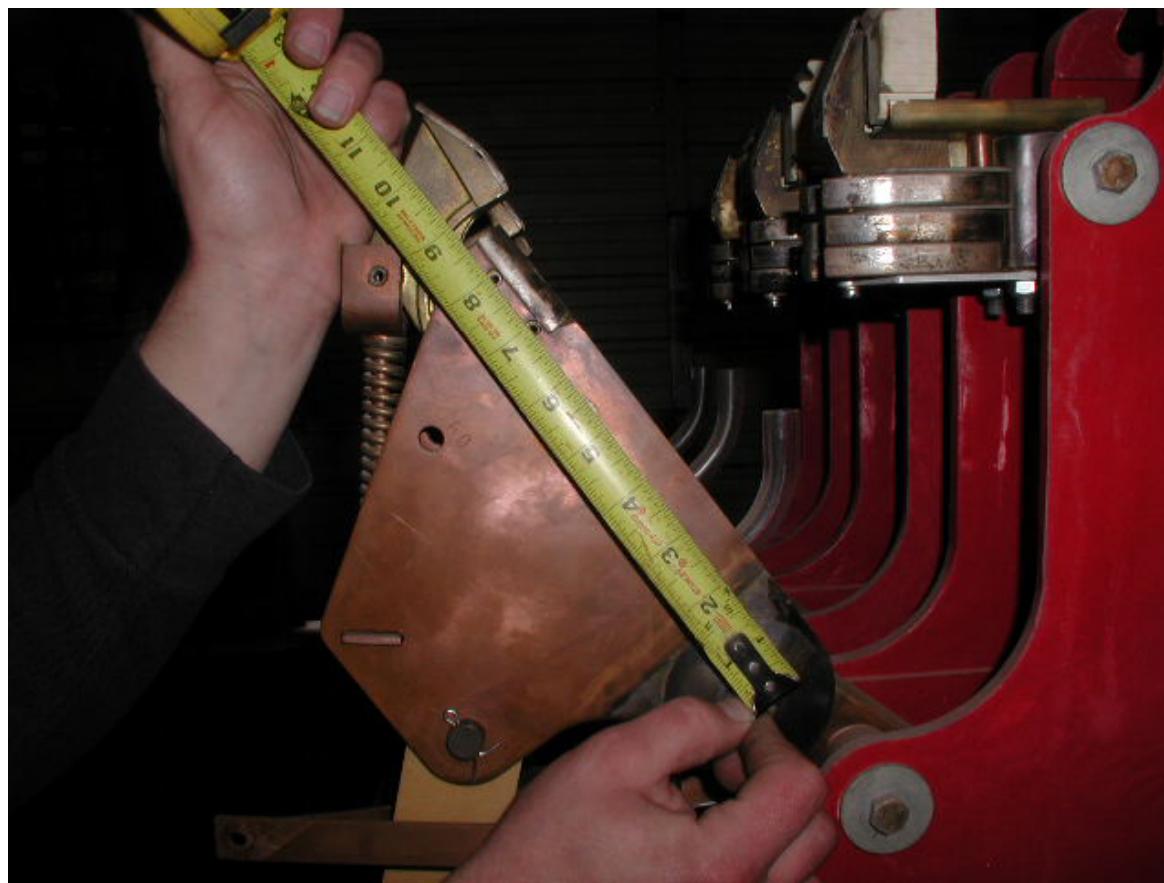
Arcing Contact Hinge Joint Check



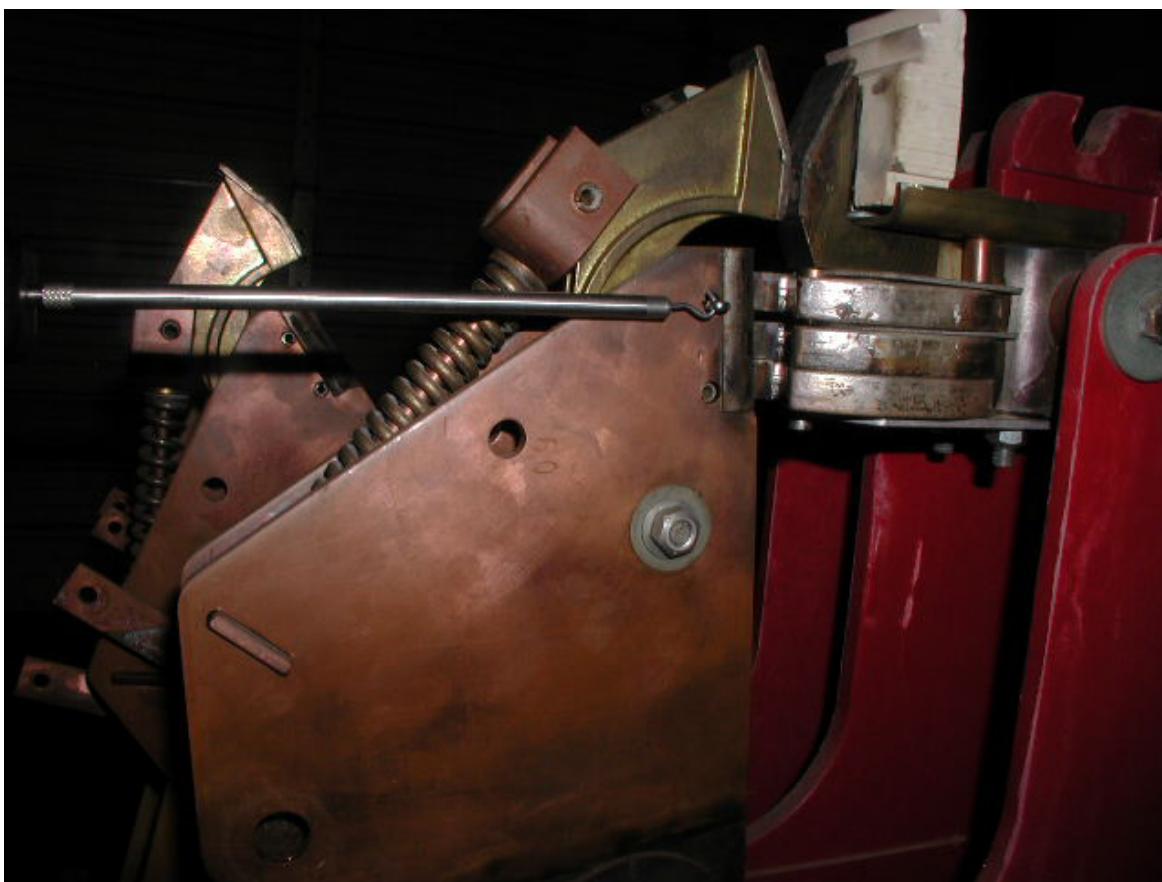
Moving Contact Hinge Joint Check



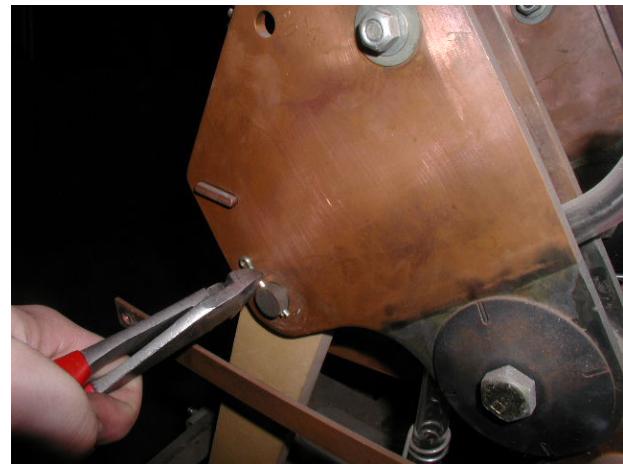
ATTACH a Spring Scale @ 8.5" above the Moving Contact hinge bolt perpendicular to long edge of the contact



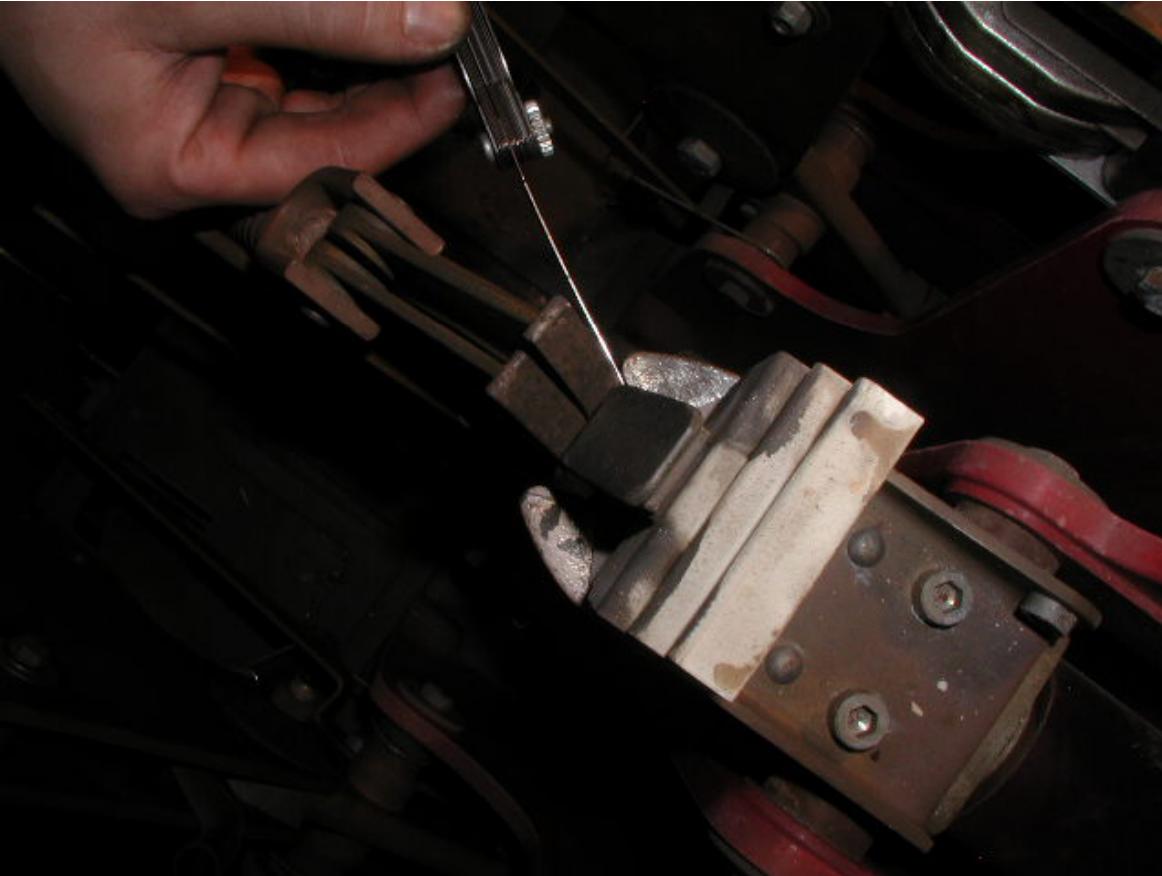
MEASURE the amount of pull required to move the contact toward “OPEN” position



**REMOVE the cotter pin and Link Pin from the Push
Link and Moving Contact from two (2) phases only**



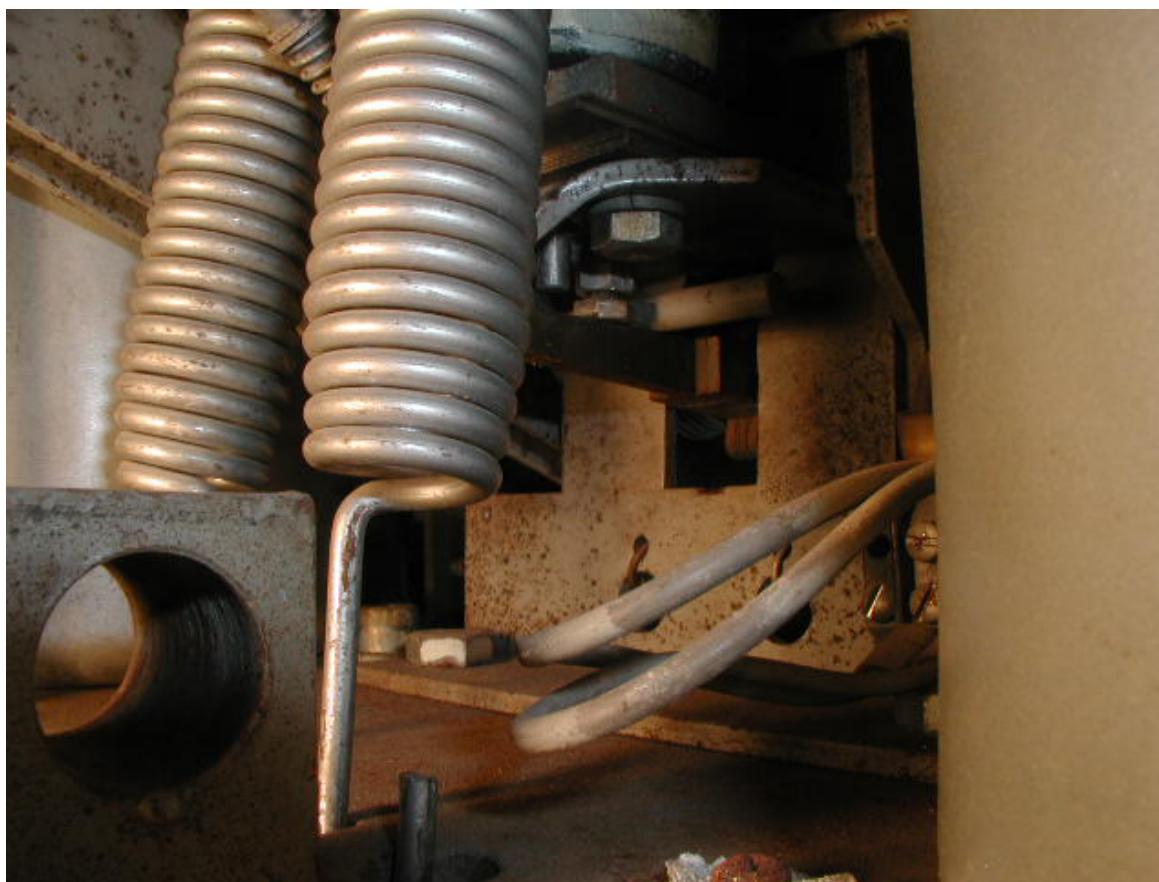
Contact Alignment Check



Contact Stroke Check



Trip Pin to Trip Latch Clearance

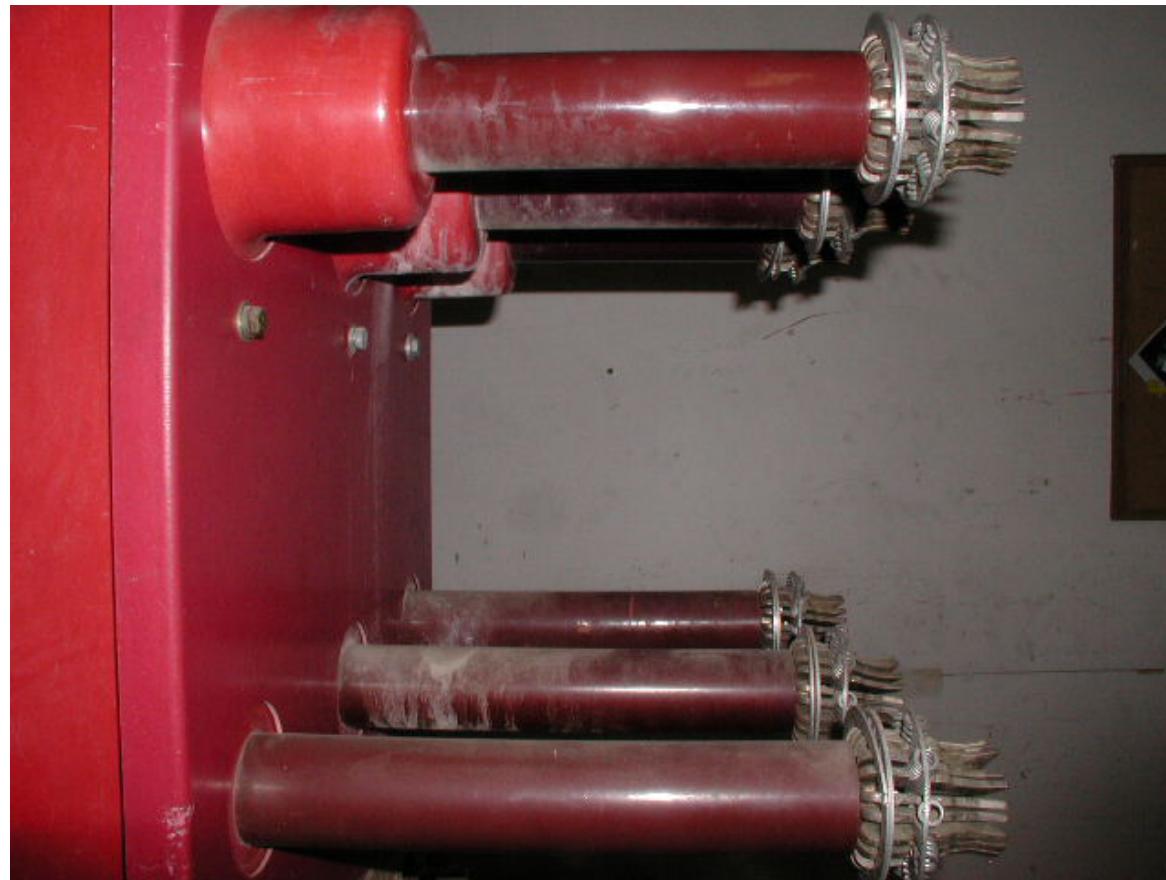


BREAKER COMPONENT INSPECTION



- Main contacts
- Main contact springs
- Arcing contacts
- Silver plating
- Pins, Latches, Rollers, Linkages
- Accessible bearings for freedom of movement

INSPECT primary bushings for damage



INSPECT secondary contact fingers for damage

